

Name: **D.KanthiSudha**

Designation: Assistant Professor

Department: Electronics & Communication Engineering

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Experience (in years):17.5 years Teaching:14 years

Research: Others (If any, Specify):3.5 years



1. Educational / Technical Qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph.D.	Thesis Submitted	RF MEMS
2	M.Tech	2005	Microwave Engineering
3	B.Tech	2002	ECE

2. Teaching and Learning:

2.1. Teaching Interests:

Microwave Engineering, Antennas & Wave Propagation, Electromagnetic waves and Transmission Lines, Radar Systems, Optical Communications, Satellite Communications, Basics of Nano Science & Technology.

2.2. Novel Teaching & Learning Techniques adopted:

WIT & WIL, Role Play, Learning by doing, POGIL, Lab protocol

2.3. Involvement in curriculum updating / Design:

NBA and Board Of Studies Member

- Coordinator for PG Embedded Systems and was instrumental in attaining accreditation first time under Outcome Based Education
- Involved in Department Presentation preparation both for UG and PG level
- Involved in articulation requirements of Criteria's in NBA SAR
- Involved in analysis of rubric design and attainment of COs, POs and PEOs
- Involved in Department files verification as per the NBA SAR
- Involved in writing the Compliance report for NBA NAAC
- Involved in Department level Presentation for NAAC visit
- Involved in designing posters needed for display in the Department

Member of Department Academic Committee

- Involved in updating curriculum of subjects Microwave Engineering, Antennas & Wave Propagation, Electromagnetic waves and Transmission Lines, Radar Systems, Optical Communications, Satellite Communications
- Involved in consolidation of feedbacks collected from stake holders regarding curriculum requirements
- Involved in the process flow of framing PEOs, POs and Cos
- Involved in suggesting corrective measures based on CO attainment levels
- Department Verification team member for JNTUH FRC visit
- Coordinated with Department lab in charges to ensure compliance with respect to the data submitted online to the affiliating University

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies: Reading Books, Listening to Music

3.2. CCA/ECA Organized:

3.3. CCA/ECA participated:

- Blog writer for Times of India Readers Blog - Digital Edition under the name @ My Reveries

The articles written are:

- Engineering Education : Paradigm shift
- Zero Year or Hero Year
- Vote for Smarter and Greener Campuses
- Early Risers
- Where the mind is without fear and the head is held high
- WHF for teaching fraternity is no less than WWF wrestle mania
- On a Positive note
- Design for Life
- FOMO: Fear of Missing out
- Higher Education Scenario – A relay race
- Challenge yourself
- Camouflage
- Engineering Education- Match your passion-Chart the right career choice
- Recapitulate life

3.4. Counseling and Mentoring Activity: Admission Counsellor for UG, PG & Lateral entry student aspirants, Mentor for J&K students admitted through PMSSS

3.5. Committees involved in:

Department Level: Programme Assessment Committee, Department Academic Committee, Project Review Committee, NBA SAR internal review committee member

Institute Level: Coordinator Admissions, Institute Nodal Officer for J&K PMSSS Admissions, Institute Nodal Officer Pragati Scholarship Scheme, Institute PG Coordinator for AICTE PG Scholarships, Coordinator Annual day, Coordinator VNR EXPRO, Committee member for Impact and Strategies Manual during COVID, Institute level Committee member for NIRF ranking – Teaching & Learning Resources Criteria

Website Management and Communication Committee member for IEEE conference “International Advance Computing Conference”

Anchoring and Stage management Committee member for Convergence -Technical fest, ISTE Annual Convention Awards, Annual Day & Cultural Fest

4. Conference / Workshop / Seminar / Guest Lectures:

4.1. Conducted:

- Guest Lecture on “IOT and its Applications”
- Faculty Development Programme on “Practical RF Antenna Design” in collaboration with E&ICT Academy, NIT Warangal.
- Professional Development Programme on “NBA in a Nutshell” in collaboration with IEEE SB & ECE Department
- Represented our college and delivered lecture as a Coordinator, Admissions in “Virtual Global University Fair” organised by Oakridge International School
- “Careers in Engineering Streams” in collaboration with the Departments in the institute for school children
- Initiated and moderated all the Departments Live Panel Discussions “Engineering Education- Match your Passion: Charting the Right Career Choice” for VNR aspirants
- VNR EXPRO (Exploring Exciting Projects) for high school students of Silver Oaks International School, Bachupally

4.2. Attended:

FDPs/ Symposiums/Conferences/Guest Lectures attended:

IEEE SPS summer school on IOT for Biomedical and Healthcare Applications
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Demystifying 5G RF ASICs organized by Electronics & ICT Academy, IIT Guwahati

19th World Education Summit 2021, Higher Education - The Premier Global Event on Innovation in Education Virtual Conference organized by Elets Technomedia and Digital Learning Magazine
Ahmedabad Learning Dialogues - A conference on Teaching & Learning" organised by Ahmedabad University, Gujarat
Distinguished lecture program on State-of-the-art Silicon VLSI: Industrial Face of Nanotechnology organized by IEEE VNRVJIET SB, IEEE MJCET SB, and IEEE Vardhaman SB
MTT-S Distinguished Microwave Lecture on Analog Photonic Systems: Features & Techniques to Optimize Performance organized by IEEE Hyderabad Section MTT-S/AP-S/EMC-S Jt. Chapter
Expert Lecture "Towards Contextual Security of AI-enabled platforms " organized by IEEE CISGRSS Jt. Chapter, Hyderabad Section
National Symposium on "Accelerating Digital Transformation in Challenging times" organised by IETE on the occasion of IETE 53rd World Telecommunication and Information Society Day
ASMA Higher Education Innovation Summit 2021- Admission Director and Marketers Summit on Changing Landscape of Admissions and Marketing in Indian Institutions
AICTE Training And Learning (ATAL) Academy Online FDP on "Artificial Intelligence" at Indian Institute of Information Technology(IIT Nagpur)
Effective Technical Report Writing using LaTeX organized by MGIT,Hyderabad
Academic Research in Engineering for Industry and Patents organized by CSI, Hyderabad Chapter & MVSR, Hyderabad
Practical RF/ Microwave Active Circuit Design @ BITS Hyderabad
Embedded Hardware, Operating Systems and IOT Applications
Advances in Antenna Design with Applications and Simulation with HFSS software
A Step to NBA Accreditation: Education on Program Education Objectives and Outcomes(SNAEPRO-2014)
Wireless Sensor Node Design
Guest Lecture titled "Paper-based Lithium-Ion Batteries for Flexible Hybrid Electronics"
Workshop on " Design and Applications of Nano materials for Sensors"

Webinars:

1. An overview of Artificial Satellite Technology dt.19th April,2020. organised by IEEE, Hyd
2. Modelling Multifunction Phased Array Radars with Matlab and Simulink dt.29th April,2020.organised by Math works in collaboration with IIT Kharagpur
3. Improving Research Planning skills at Technical Institute dt. 29th April, 2020. organised by Elsevier and VTU consortium
4. Can COVID-19 Spur Education 4.0 dt. 30th April, 2020. organised by eletsonline.com
5. Redefining the Leadership in Virtual Environment- Innovation to Transformation Dt. 4th May,2020 organised by eletsonline.com

6. A panel discussion on Lockdown period-Work life Balance, dt. May2nd, 2020. organized by IEEE Hyd, WIE Hyd and CS Chapter
7. Diversity as a Driver of Innovation and Enterprise Success dt.May5th, 2020.
8. Virtual Labs and its Importance dt. May4th, 2020 organized by IIITH, IEEE VNR SPS,CASSBC,WIE,Hyd.
9. A Panel Discussion on work from home and its challenges, dt.25th April, 2020. organized by IEEE Hyd,WIEHyd and ES chapter
10. COVID-19, Changing Challenges into opportunities-Continued learning and role of Tech in Academia dt. May 8th,2020 organized by eletsonline.com
11. Online Meditation session for college staff and faculty dt.May8th, 2020. organized by The Art of Living
12. Mental health - Taking care of Emotional well-being during lockdown dt. May7th, 2020. organized by VNR VJIET
13. Robotics & AI Before and After COVID 19, dt.May9th,2020.organized by YPAG,IEEE Hyd
14. Industry Phase shift: Before and After COVID19 dt. May 9th, 2020. Organized by YPAG,IEEE Hyd
15. COVID-19, Changing Challenges into opportunities-Continued learning and role of Tech in Academia, dt. May 8th,2020. Organized by eletsonline.com
16. Research workflows, Research Metrics for Excellence in Academic Institutes dt. 14th May,2020. organized by AICTE and Elsevier
17. Design of Antennas for Defence Applications dt. 15th May,2020. organized by MTT, IEEE Hyd section
18. LaTeX - A Scientific Documenting Tool dt.21st May,2020, organized by IEEE,Hyd section
19. Amidst Pandemic Outbreak, Can we claim to be living in the technology era? Dt. 23rd May,2020, organized by CPADT, VNR VJIET
20. "Global Webinar-AI Solutions for COVID" dt. 25th May 2020, organized by Bennett University, Times of India Group.
21. Webinar on "Tackling Anxiety in the Context of Impulsive Adaptation to Virtual Class Room" dt. 28th May, 2020 organized by CPADT, VNR VJIET.
22. Webinar on "Remote Learning and Working The Normal" dt. 27th May 2020, organised by Maharashtra Association of Training and Placement Officer's (MaTPO).
23. Attended Webinar series by Women Leaders dt. 25th to 29th May, 2020 organized by WIE, IEEE Bangalore section.
24. Leadership Talk organized by MHRD Innovation Cell on 6.6.2020
25. Technology, Innovation and Career lecture organized by IEEE US ,MTT-S on 7.6.2020
26. Forward-Thinking Micro-Mobility Electrification Strategies to Build Pandemic-Resilient Smart Cities organized by IEEE, Hyderabad section on 8.6.2020
27. How to get research grants from UGC & AICTE (minor or major research projects application process) organized by MBITS, Kochi on 8.6.2020
28. Engineering Education in Post-COVID-19 Era: Way Forward organized by MHRD,AICTE,TEQIP-3,NPIU on 18.6.2020
29. Team work and Life skills for a successful career organised by IEEE, Hyderabad section on 27.6.2020
30. How HEI can Align Their Curriculum to NEP 2020? Conducted by ASSOCHAM National Council on Education on June 5th, 2021

31. Revealing the Secret: How we helped our clients Improve their Conversion Rate by 2X conducted by Extra edge on June 2nd, 2021
32. Research and Innovation Best Practices in Higher Education conducted by ASSOCHAM National Council on Education on June 2nd,2021
33. Innovations and Skill Opportunities in Current Pandemic Time: Physical and Psychological conducted by ASSOCHAM National Council on Education and Maharshi Dayanand University on 25th May,2021
34. Revisiting Our Teaching Philosophies in Online Environs conducted by IEEE Education Society Chapter, Hyderabad Section on 22nd May,2021
35. “The Art of becoming a Successful Team Leader for Global Organizations conducted by Bharati Vidyapeeth’s Institute of Computer Applications and Management, New Delhi in collaboration with IEEE Delhi section & IIPC, AICTE on 22nd May 2021

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures:

5.2. Articles/Chapters published in Books: Eye blink Artefact Cancellation in EEG signal using sign based Nonlinear adaptive filtering Techniques” book chapter pg. 86-95 published by SPRINGER Information Systems Design and Intelligent Applications, Proceedings of Fourth International Conference INDIA 2017

5.3. Books published as single author or as editor: Co Authored a book on “Advanced Communication Systems” for Polytechnic students

5.4. Projects Guided:

a) UG: 14 b) PG:3

5.5. Research Interests: Conformal Antennas,RF MEMS, TX/RX RF Modules, LTCC simulation

5.6. Ph.D students:

a) Enrolled:

b) Submitted:

c) Awarded:

5.7. Papers published in reviewed Journals:

S.No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	Comparative Analysis of Radiation Performance and Bandwidth of Planar, Conformal Microstrip Patch Antennas	International Journal of All Research Education and Scientific Methods (IJARESM), Volume 9, Issue 3, March -2021	2455-6211	7.429	International
2	Optimizing Conformal Antenna Design for Cylindrical Structures to achieve Omni Directional Radiation coverage	The International journal of analytical and experimental modal	0886-9367	6.3	International

		analysis, Volume XIII, Issue II, February/2021			
3	RF Transceiver Module for Pipeline Pilferage Detection	Journal of Computational and Theoretical Nanoscience, Vol. 17, 1-4, Nov 2020	doi:10.1166/ jctn.2020.9642	0.488	International
4	ASIC Design and Verification Of AMBA APB Protocol Using UVM	International Journal Of Innovative Technology And Exploring Engineering	2278-3075	0.6	International
5	Simulation of MPA using Probe,Edge and Inset Feed for 2.4GHz and 5GHz	IJESS, vol- 1,Iss-4, 2012	2231-5969		International

5.8. Papers presented at National / International Journals/ conferences:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Feasibility Analysis of a Microstrip Patch Antenna Being Used as a Conformal Antenna	International E- Conference on Research and Development in Science, Technology and Management in the Current Era	International	February 21 st , 2021
2	Simulation of MPA using Probe,Edge,and Inset feed for 2.4GHz and 5GHz	International Conference on Electrical and Electronics Engineering (ICEEE-2012), Tirupati, India.	International	
3	Eye Blink Artefact Cancellation in EEG Signal Using Sign-Based Nonlinear Adaptive Filtering Techniques	International Conference on INformation systems Design and Intelligent	International	June 15- 17, 2017

		Applications (INDIA-2017)		
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5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed

6. Awards / Honors received:

- Received Elite Silver certificate for the NPTEL online certification course “NBA Accreditation and Teaching and Learning in Engineering (NATE)” conducted by IISC Bangalore.
- Certificate for exceptional contribution as a Primary Evaluator in ‘Toycathon 2021’organised by AICTE & Ministry of Education Innovation cell
- IEEE membership has been elevated to Senior Member grade
- Faculty Mentor for the Team from VNRVJIET Verve_ Brio which has been declared winner in the complex problem statement category given by PSU - Oil India Limited and won a cash prize of Rs.1,00,000 in the Smart India Hackathon 2019- Hardware edition conducted by MHRD and AICTE at CSIO, Chandigarh.
- Faculty Mentor for the Team who have won GOLD certificate in IIA International Innovation Fair 2019 for the innovation “Pipe Leakage Detection”.
- Was Felicitated as Winner for the Prestigious Award of India’s Top Admission Counsellors Summit & Awards 2021 to honor the exemplary work in the field of Education and recognized as one of the brightest and influential counsellors in Education. The Award was constituted by ASMA(Adopting Social Media as part of Academia) India’s first research initiative by FMA Digital, created to empower academic institutes and universities such that they can leverage social media tools and digital technologies to significantly address challenges faced in areas such as Student Admissions, Alumni Relations, International Cells, Research & Conferences, Learning & Pedagogy, Placements, Institution Branding, Industry Interface, Campus Life and more.
- My article “Thrown out of Comfort Zone, I learnt to Innovate” written under the TOI theme of Inspiring Lockdown story got published in Telangana Times of India print edition on March 17th,2021
- My article “Road to Recovery – Beating the Corona Virus” written under the TOI theme of COVID recovery story got published in Telangana Times of India print edition on May 19th,2021
- My article “Engaging students in Active Learning Assignments” written under the TOI theme Thriving in the new normal got published in Telangana Times of India print edition on July 14th,2021
- My article “Spirit of Diwali” written under the TOI Diwali theme got published in Telangana Times of India print edition on Nov 4th,2021

7. **Motto:** Seek respect, not attention. It lasts longer.